

Rec'd PCT/PTO 22 DEC 2005

10/506630

**RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/506,630 A  
Source: PCT  
Date Processed by STIC: 12/22/2005

***ENTERED***

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/506, 630 A

CRF Edit Date: 12/22/2005  
Edited by: DA

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

\_\_\_\_\_

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_\_

→ Deleted: \_\_\_ invalid beginning/end-of-file text ; \_\_\_ page numbers

\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_\_\_

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_\_

\_\_\_ Other: Entered the Base numbers  
\_\_\_\_\_  
\_\_\_\_\_



PCT

## RAW SEQUENCE LISTING

DATE: 12/22/2005

PATENT APPLICATION: US/10/506,630A

TIME: 12:41:19

Input Set : N:\DA\pto.da.txt

Output Set: N:\CRF4\12222005\J506630A.raw

```

4 <110> APPLICANT: GOKHALE, Rajesh
5     TSUJI, Stuart
6     KHOSLA, Chaitan
7     WU, Nicholas
8     CANE, David
10 <120> TITLE OF INVENTION: METHODS TO MEDIATE POLYKETIDE SYNTHASE
11     MODULE EFFECTIVENESS
13 <130> FILE REFERENCE: 300622004601
15 <140> CURRENT APPLICATION NUMBER: US 10/506,630A
C--> 16 <141> CURRENT FILING DATE: 2004-09-03
18 <150> PRIOR APPLICATION NUMBER: PCT/US03/06910
19 <151> PRIOR FILING DATE: 2002-03-04
21 <150> PRIOR APPLICATION NUMBER: US 10/091,244
22 <151> PRIOR FILING DATE: 2002-03-04
24 <150> PRIOR APPLICATION NUMBER: 60/361,758
25 <151> PRIOR FILING DATE: 2002-03-04
27 <160> NUMBER OF SEQ ID NOS: 41
29 <170> SOFTWARE: FastSEQ for Windows Version 4.0
31 <210> SEQ ID NO: 1
32 <211> LENGTH: 15
33 <212> TYPE: DNA
34 <213> ORGANISM: Artificial Sequence
36 <220> FEATURE:
37 <223> OTHER INFORMATION: Nhe site upstream of the KS at position 7570
39 <400> SEQUENCE: 1
40 gctagcgagc cgatc 15
43 <210> SEQ ID NO: 2
44 <211> LENGTH: 15
45 <212> TYPE: DNA
46 <213> ORGANISM: Artificial Sequence
48 <220> FEATURE:
49 <223> OTHER INFORMATION: Nhe site upstream of the KS at position 28710
51 <400> SEQUENCE: 2
52 gctagcgacc cgatc 15
55 <210> SEQ ID NO: 3
56 <211> LENGTH: 31
57 <212> TYPE: PRT
58 <213> ORGANISM: Artificial Sequence
60 <220> FEATURE:
61 <223> OTHER INFORMATION: Chemically synthesized
W--> 63 <221> NAME/KEY: misc feature
64 <223> OTHER INFORMATION: N-terminal linker
W--> 66 <400> 3

```

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```

67 Met Thr Asp Ser Glu Lys Val Ala Glu Tyr Leu Arg Arg Ala Thr Leu
68 1          5          10          15
69 Asp Leu Arg Ala Ala Arg Gln Arg Ile Arg Glu Leu Glu Ser Asp
70          20          25          30
73 <210> SEQ ID NO: 4
74 <211> LENGTH: 25
75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Primer
81 <400> SEQUENCE: 4
82 actagtaggc tgttcgcggc ctcac          25
85 <210> SEQ ID NO: 5
86 <211> LENGTH: 24
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <223> OTHER INFORMATION: Primer
93 <400> SEQUENCE: 5
94 gggaattcag gtcctctccc ccgc          24
97 <210> SEQ ID NO: 6
98 <211> LENGTH: 23
99 <212> TYPE: DNA
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Primer
105 <400> SEQUENCE: 6
106 ccatatggtg gtcgaccggc tcg          23
109 <210> SEQ ID NO: 7
110 <211> LENGTH: 24
111 <212> TYPE: DNA
112 <213> ORGANISM: Artificial Sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: primer
117 <400> SEQUENCE: 7
118 gaattcctac aggtcctctc cccc          24
121 <210> SEQ ID NO: 8
122 <211> LENGTH: 22
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: primer
129 <400> SEQUENCE: 8
130 ccatatgctg cgcgaccggc tg          22
133 <210> SEQ ID NO: 9
134 <211> LENGTH: 25
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:

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Input Set : N:\DA\pto.da.txt

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139 <223> OTHER INFORMATION: primer  
141 <400> SEQUENCE: 9  
142 gaattctcaa tcgccgtcga gctcc 25  
145 <210> SEQ ID NO: 10  
146 <211> LENGTH: 23  
147 <212> TYPE: DNA  
148 <213> ORGANISM: Artificial Sequence  
150 <220> FEATURE:  
151 <223> OTHER INFORMATION: primer  
153 <400> SEQUENCE: 10  
154 ccatatggtg gtcgaccggc tcg 23  
157 <210> SEQ ID NO: 11  
158 <211> LENGTH: 23  
159 <212> TYPE: DNA  
160 <213> ORGANISM: Artificial Sequence  
162 <220> FEATURE:  
163 <223> OTHER INFORMATION: primer  
165 <400> SEQUENCE: 11  
166 actagtggagg aaaccggcga ccg 23  
169 <210> SEQ ID NO: 12  
170 <211> LENGTH: 22  
171 <212> TYPE: DNA  
172 <213> ORGANISM: Artificial Sequence  
174 <220> FEATURE:  
175 <223> OTHER INFORMATION: primer  
177 <400> SEQUENCE: 12  
178 ccatatgctg cgcgaccggc tg 22  
181 <210> SEQ ID NO: 13  
182 <211> LENGTH: 24  
183 <212> TYPE: DNA  
184 <213> ORGANISM: Artificial Sequence  
186 <220> FEATURE:  
187 <223> OTHER INFORMATION: primer  
189 <400> SEQUENCE: 13  
190 gaattcttag ccgagctcgg cgtc 24  
193 <210> SEQ ID NO: 14  
194 <211> LENGTH: 23  
195 <212> TYPE: DNA  
196 <213> ORGANISM: Artificial Sequence  
198 <220> FEATURE:  
199 <223> OTHER INFORMATION: primer  
201 <400> SEQUENCE: 14  
202 ccatatggtg gtcgaccggc tcg 23  
205 <210> SEQ ID NO: 15  
206 <211> LENGTH: 27  
207 <212> TYPE: DNA  
208 <213> ORGANISM: Artificial Sequence  
210 <220> FEATURE:  
211 <223> OTHER INFORMATION: primer

## RAW SEQUENCE LISTING

DATE: 12/22/2005

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TIME: 12:41:19

Input Set : N:\DA\pto.da.txt

Output Set: N:\CRF4\12222005\J506630A.raw

```

213 <400> SEQUENCE: 15
214 gaattccttag aacagcctgt cccgcag      27
217 <210> SEQ ID NO: 16
218 <211> LENGTH: 27
219 <212> TYPE: DNA
220 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: primer
225 <400> SEQUENCE: 16
226 ctgctcgaga ggctgttcgc ggcctca      27
229 <210> SEQ ID NO: 17
230 <211> LENGTH: 27
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: primer
237 <400> SEQUENCE: 17
238 cccgctgagc ctacaggctcc tctcccc      27
241 <210> SEQ ID NO: 18
242 <211> LENGTH: 18
243 <212> TYPE: PRT
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Intra-polypeptide linker
249 <400> SEQUENCE: 18
250 Gly Gly Ala Thr Gly Ala Glu Gln Ala Ala Pro Ala Thr Thr Ala Pro
251 1          5          10          15
252 Val Asp
255 <210> SEQ ID NO: 19
256 <211> LENGTH: 18
257 <212> TYPE: PRT
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: Intra-polypeptide linker
263 <400> SEQUENCE: 19
264 Val Gly Asp Ala Asp Gln Ala Ala Val Arg Val Val Gly Ala Ala Asp
265 1          5          10          15
266 Glu Ser
270 <210> SEQ ID NO: 20
271 <211> LENGTH: 21
272 <212> TYPE: PRT
273 <213> ORGANISM: Artificial Sequence
275 <220> FEATURE:
276 <223> OTHER INFORMATION: Intra-polypeptide linker
278 <400> SEQUENCE: 20
279 Val Gly Ala Ala Glu Ala Glu Gln Ala Pro Ala Leu Val Arg Glu Val
280 1          5          10          15
281 Pro Lys Asp Ala Asp
282          20

```

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Input Set : N:\DA\pto.da.txt

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285 <210> SEQ ID NO: 21
286 <211> LENGTH: 17
287 <212> TYPE: PRT
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: Intra-polypeptide linker
293 <400> SEQUENCE: 21
294 Phe Gly Ser Ala Ala Asn Arg Pro Ala Glu Ile Gly Thr Ala Ala Ala
295 1 5 10 15
296 Glu
300 <210> SEQ ID NO: 22
301 <211> LENGTH: 17
302 <212> TYPE: PRT
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Intra-polypeptide linker
308 <400> SEQUENCE: 22
309 Leu Gly Glu Arg Pro Ala Ala Pro Ala Pro Val Thr Arg Asp Val Ser
310 1 5 10 15
311 Asp
315 <210> SEQ ID NO: 23
316 <211> LENGTH: 19
317 <212> TYPE: PRT
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Intra-polypeptide linker
323 <400> SEQUENCE: 23
324 Gly Glu Thr Val Ala Gly Ala Pro Ala Thr Pro Val Thr Thr Val Ala
325 1 5 10 15
326 Asp Ala Gly
330 <210> SEQ ID NO: 24
331 <211> LENGTH: 21
332 <212> TYPE: PRT
333 <213> ORGANISM: Artificial Sequence
335 <220> FEATURE:
336 <223> OTHER INFORMATION: Intra-polypeptide linker
338 <400> SEQUENCE: 24
339 Glu Leu Phe Thr Gly Glu Asn Pro Ala Pro Val Arg Gly Pro Val Ser
340 1 5 10 15
341 Ala Val Gly Gln Asp
342 20
345 <210> SEQ ID NO: 25
346 <211> LENGTH: 21
347 <212> TYPE: PRT
348 <213> ORGANISM: Artificial Sequence
350 <220> FEATURE:
351 <223> OTHER INFORMATION: Intra-polypeptide linker
353 <400> SEQUENCE: 25
354 Glu Leu Phe Thr Gly Glu Asn Pro Ala Pro Val Arg Gly Pro Val Ser

```

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 12/22/2005  
PATENT APPLICATION:    US/10/506,630A      TIME: 12:41:20

Input Set : N:\DA\pto.da.txt  
Output Set: N:\CRF4\12222005\J506630A.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:2; Line(s) 52



**VERIFICATION SUMMARY**

DATE: 12/22/2005

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Input Set : N:\DA\pto.da.txt

Output Set: N:\CRF4\12222005\J506630A.raw

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:63 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:63 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3  
L:66 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3